

WHAT IS CLAIMED IS:

1. A CD-ROM drive capable of rapidly detaching and installing, comprising:
 - a frame comprising a side opening and an interior cavity in communication with the opening so that the CD-ROM drive can be mounted in the cavity
 - 5 through the opening; and
 - an elongated fastening assembly at a side of the cavity, the fastening assembly comprising an elongated sliding member and an elongated fastening member,
 - wherein a movement of the sliding member toward or away from the side opening causes the fastening member to move toward or away from the CD-ROM drive for either securing the fastening member to the CD-ROM drive or disengaging the fastening member from the CD-ROM drive.
- 10 2. The CD-ROM drive of claim 1, wherein the frame is received in a slot of a case of a computer, the frame further comprises a latch on a bottom, and the case further comprises an interior slit, the slit being matingly coupled to the latch for securing the frame to the case or being disengaged from the latch for detaching the frame from the case.
- 15 3. The CD-ROM drive of claim 1, wherein the fastening assembly further comprises an engagement section on a bottom, the engagement section including a central vertical groove parallel to a side wall of the cavity, a first opening through the frame and in a center of the vertical groove, and an upright latch arm at either side of the first opening, the latch arms being parallel to the vertical groove; and a groove section adjacent either side of the engagement section, the groove section including two parallel, transverse
- 20 25 grooves at both sides of either groove section, the transverse grooves being perpendicular to the vertical groove, and a substantially elliptical limiting slot in a center of either groove section, the limiting slot being proximate and aligned

with the vertical groove and the transverse groove being perpendicular to the vertical groove.

4. The CD-ROM drive of claim 3, wherein the sliding member comprises a sliding piece on an underside, a finger tab on the sliding piece, and a cylindrical projection at either end distal from the sliding piece so that the sliding piece is fitted in the vertical groove when the sliding member is fastened in the engagement section by the latch arms, the finger tab is projected from the frame by passing the first opening, and the projections are defined by the limiting slots.

10 5. The CD-ROM drive of claim 3, wherein the fastening member comprises a trough, a guide proximate either end, a rail at either end, a slanted slot on either guide, an abutment surface projected from either guide, the abutment surfaces being parallel to the trough, and at least one peg protruded from either abutment surface so that the slanted slots and the limiting slots are partially overlapped when the rails are fitted in the transverse grooves because the slanted slot is disposed at an angle about the limiting slot.

15 6. The CD-ROM drive of claim 5, wherein the CD-ROM drive comprises at least one first hole on a side wall, the first hole being adapted to receive the peg for fastening the CD-ROM drive in the frame.

20 7. The CD-ROM drive of claim 1, wherein the frame further comprises at least one protuberance on a side wall opposite the fastening assembly, and the CD-ROM drive further comprises at least one second hole on a side, the second hole being adapted to receive the protuberance.

25 8. The CD-ROM drive of claim 1, wherein the computer is a notebook computer.

9. The CD-ROM drive of claim 1, wherein the frame further comprises a plurality of parallel ribs on the bottom for strengthening the frame.

10. The CD-ROM drive of claim 1, further comprising two ridges in the vertical groove adjacent both ends of the first opening, and two slots on both ends of the sliding piece, the slots being adapted to receive the ridges.